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| | | | | Application Number | 10/621,485 |
| | | | | Filing Date | July 16, 2003 |
| | | | | First Named Inventor | Mueckler et al. |
| | | | | Art Unit | 1614 |
| | | | | Examiner Name | Susan Emily Fernandez |
| Sheet | 1 | of | 6 | Attorney Docket Number | 56029-41936 |

| U.S. PATENT DOCUMENTS | | | | | |
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| Examiner Initials | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
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| SH | AA | ALESSI, D. et al., Mechanism of Activation of Protein Kinase B by Insulin and IGF-1, The EMBO Journal, 1996, 15 (23): 6541-6551 | |
| SH | AB | ALESSI, D. et al., 3-Phosphoinositide-Dependent Protein Kinase-1 (PK1): Structural and Functional Homology with the Drosophila DSTPK61 Kinase, Current Biology, September 18, 1997, 7 (10): 776-789 | |
| SH | AC | ALESSI, D. et al., Characterization of a 3-Phosphoinositide-Dependent Protein Kinase Which Phosphorylates and Activates Protein Kinase B, Current Biology, March 19, 1997, 7 (4): 261-269 | |
| SH | AD | BALENDRAN, A. et al., PDK1 Acquires PDK2 Activity in the Presence of a Synthetic Peptide Derived from the Carboxyl Terminus of PRK2, Current Biology, April 8, 1999, 9 (8): 393-404, S1-S3 | |
| SH | AE | BEHN-KRAPPA and NEWTON, The Hydrophobic Phosphorylation Motif of Conventional Protein Kinase C is Regulated by Autophosphorylation, Current Biology, June 30, 1999, 9 (14): 728-737 | |
| SH | AF | BRAZIL and HEMMINGS, Ten Years of Protein Kinase B Signalling: A Hard Akt to Follow, TRENDS in Biochemical Sciences, November 2001, 26 (11): 657-664 | |

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| JS | AG | CALDERHEAD, D. et al., Insulin Regulation of the Two Glucose Transporters in 3T3-L1 Adipocytes, The Journal of Biological Chemistry, August 15, 1990, 285 (23): 13800-13808 | | |
| JS | AH | CLARK, S. et al., Intracellular Localization of Phosphatidylinositol 3-Kinase and Insulin Receptor Substrate-1 in Adipocytes: Potential Involvement of a Membrane Skeleton, The Journal of Cell Biology, March 9, 1998, 140 (5): 1211-1225 | | |
| JS | AI | COFFER, P. et al., Protein Kinase B (c-Akt): A Multifunctional Mediator of Phosphatidylinositol 3-Kinase Activation, Biochem. J., 1998, Great Britain, 335: 1-13 | | |
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| JS | AK | CRITCHLEY, David R., Focal Adhesions – the Cytoskeletal Connection, Current Opinion in Cell Biology, 2000, 12: 133-139 | | |
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| JS | AM | DEDHAR, S. et al., Integrin-Linked Kinase (ILK): A Regulator of Integrin and Growth-Factor Signalling, <i>trends in CELL BIOLOGY</i> , August 1999, 9: 319-323 | | |
| JS | AN | DELCOMMENNE, M. et al., Phosphoinositide-3-OH Kinase-Dependent Regulation of Glycogen Synthase Kinase 3 and Protein Kinase B/AKT by the Integrin-Linked Kinase, Proc. Natl. Acad. Sci. USA, Cell Biology, September 1998, 95: 11211-11216 | | |
| JS | AO | DENU and TANNER, Specific and Reversible Inactivation of Protein Tyrosine Phosphatases by Hydrogen Peroxide: Evidence for a Sulfenic Acid Intermediate and Implications for Redox Regulation, Biochemistry, 1998, 37: 5633-5642 | | |
| JS | AP | EBINA, Y. et al., The Human Insulin Receptor cDNA: The Structural Basis for Hormone-Activated Transmembrane Signalling, Cell, April 1985, 40: 747-758 | | |
| JS | AQ | ENDEMANN, G. et al., Phosphatidylinositol Kinase or an Associated Protein is a Substrate for the Insulin Receptor Tyrosine Kinase, The Journal of Biological Chemistry, January 5, 1990, 265 (1): 396-400 | | |

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| ST | AR | GAREN and LEVINTHAL, A Fine-Structure Genetic and Chemical Study of the Enzyme Alkaline Phosphatase of <i>E. Coli</i> , Biochim. Biophys. Acta, 1960, 38: 470-483 | |
| ST | AS | GORDON, Julius A., Use of Vanadate as Protein-Phosphotyrosine Phosphatase Inhibitor, Methods in Enzymology, 1991, 201: 477-483 | |
| ST | AT | HELLER-HARRISON, R. et al., Insulin Regulation of Membrane-Associated Insulin Receptor Substrate 1, The Journal of Biological Chemistry, October 13, 1995, 270 (41): 24442-24450 | |
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| ST | AW | JAMES, D. et al., Molecular Cloning and Characterization of an Insulin-Regulatable Glucose Transporter, Nature, 1989, 338: 83-87 | |
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| ST | AY | KELLY and RUDERMAN, Insulin-Stimulated Phosphatidylinositol 3-Kinase – Association with a 185-kDa Tyrosine-Phosphorylated Protein (IRS-1) and Localization in a Low Density Membrane Vesicle, The Journal of Biological Chemistry, February 25, 1993, 268 (6): 4391-4398 | |
| ST | AZ | KHWAJA, A. et al., Matrix Adhesion and Ras Transformation Both Activate a Phosphoinositide 3-OH Kinase and Protein Kinase B/Akt Cellular Survival Pathway, The EMBO Journal, 1997, 16 (10): 2783-2793 | |
| ST | BA | LAVAN and LIENHARD, The Insulin-Elicited 60-kDa Phosphotyrosine Protein in Rat Adipocytes is Associated with Phosphatidylinositol 3-Kinase, The Journal of Biological Chemistry, March 16, 1993, 268 (8): 5921-5928 | |
| ST | BB | LAWLOR and ALESSI, PKB/Akt: A Key Mediator of Cell Proliferation, Survival and Insulin Responses?, Journal of Cell Science, 2001, 114: 2903-2910 | |

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| JS | BC | LYNCH, et al., Integrin-Linked Kinase Regulates Phosphorylation of Serine 473 of Protein Kinase B by an Indirect Mechanism, <i>Oncogene</i> , 1999, 18: 8024-8032 | | |
| JS | BD | MCDONALD, J. et al., Ability of Insulin to Increase Calcium Binding by Adipocyte Plasma Membranes, <i>Proceedings of the National Academy of Sciences of the United States of America</i> , May 1976, 73 (5): 1542-1546 | | |
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| JS | BF | PIPER, R. et al., Differential Sorting of Two Glucose Transporters Expressed in Insulin-Sensitive Cells, <i>Am. J. Physiol.</i> , 1991, 260 (Cell Physiol. 29): C570-C580 | | |
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| JS | BI | RUBIN, C. et al., Acquisition of Increased Hormone Sensitivity During <i>in Vitro</i> Adipocyte Development, <i>The Journal of Biological Chemistry</i> , May 25, 1977, 252 (10): 3554-3557 | | |
| JS | BJ | RUDERMAN, N. et al., Activation of Phosphatidylinositol 3-Kinase by Insulin, <i>Proc. Natl. Acad. Sci.</i> , February 1990, 87 (Cell Biology): 1411-1415 | | |
| JS | BK | SALTIEL and KAHN, Insulin Signalling and the Regulation of Glucose and Lipid Metabolism, <i>Nature</i> , 2001, 414: 799-806 | | |
| JS | BL | SCHLEMMER and SIROTNAK, Energy-Dependent Efflux of Methotrexate in L1210 Leukemia Cells - Evidence for the Role of an ATPase Obtained with Inside-Out Plasma Membrane Vesicles, <i>The Journal of Biological Chemistry</i> , July 25, 1992, 267 (21): 14746-14752 | | |
| JS | BM | SEALS, J. et al., Insulin Effect on Protein Phosphorylation of Plasma Membranes and Mitochondria in a Subcellular System from Rat Adipocytes, <i>The Journal of Biological Chemistry</i> , August 10, 1979, 254 (15): 6991-6996 | | |

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| JP | BO | SIMPSON, I. et al., Insulin-Stimulated Translocation of Glucose Transporters in the Isolated Rat Adipose Cells: Characterization of Subcellular Fractions, Biochimica et Biophysica Acta, 1983, 763: 393-407 | | |
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| JP | BX | WHITE, Morris F., The IRS-Signalling System: A Network of Docking Proteins that Mediate Insulin Action, Molecular and Cellular Biochemistry, 1998, 182: 3-11 | | |

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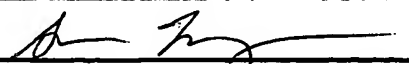
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| SH | BZ | WILLIAMS, M. et al., The Role of 3-Phosphoinositide-Dependent Protein Kinase 1 in Activating AGC Kinases Defined in Embryonic Stem Cells, Current Biology, April 5, 2000, 10 (8): 439-448 | |
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| SH | CC | INOUE, G. et al., Dynamics of Insulin Signaling in 3T3-L1 Adipocytes – Differential Compartmentalization and Trafficking of Insulin Receptor Substrate (IRS)-1 and IRS-2, The Journal of Biological Chemistry, May 8, 1998, 273 (19): 11548-11555 | |
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